

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 08210761  
PUBLICATION DATE : 20-08-96

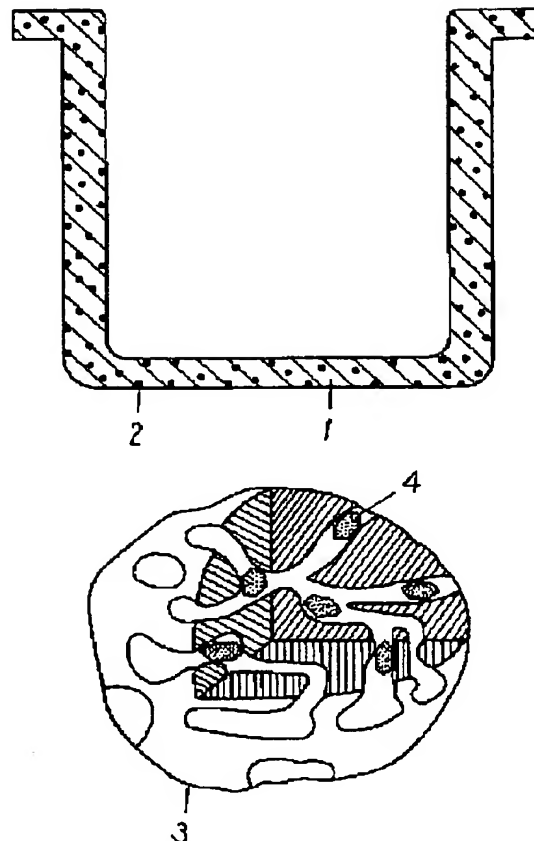
APPLICATION DATE : 06-02-95  
APPLICATION NUMBER : 07017975

APPLICANT : MATSUSHITA REFRIG CO LTD;

INVENTOR : MATSUMOTO TAKUYA;

INT.CL. : F25D 23/00 F25D 23/06

TITLE : REFRIGERATOR



ABSTRACT : PURPOSE: To prevent a bad external appearance from being formed owing to an anti-fungus agent by blending an anti-fungus agent having a particle diameter less than a specific value in resin made in-refrigerator parts in a refrigerator.

CONSTITUTION: An anti-fungus agent 2 is blended in ABS resin 1. The anti-fungus agent 2 carries an anti-fungus component 4 using silica gel 3 as a base material. A particle diameter of the base material of the anti-fungus agent 2 is made smaller than  $20\mu\text{m}$  whereby even if the base material absorbs water, the degree of expansion of the base material is small. Further, the base material is prevented from being expanded by covering the anti-fungus agent 2 with hydrophobic resin and hence reducing water absorption in the base material. Even if the resin is expanded owing to the water absorption of the base material of the anti-fungus agent 2, the expansion is returned to the original size if water disappears.

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PUBLICATION NUMBER : 06073196  
PUBLICATION DATE : 15-03-94

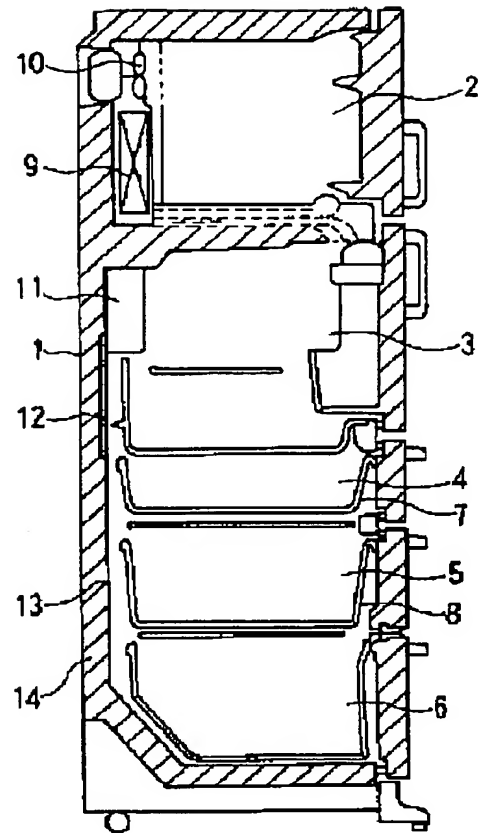
APPLICATION DATE : 28-08-92  
APPLICATION NUMBER : 04229704

APPLICANT : HITACHI LTD;

INVENTOR : TANAKA KOSUKE;

INT.CL. : C08J 5/00 C08J 5/00 C08J 9/14  
C08L 75/04 F25D 23/00 F25D 23/06 //  
C08L 75:04

TITLE : FUNGICIDAL PLASTIC MOLDING AND  
REFRIGERATOR MADE BY USING  
THE SAME MOLDING



ABSTRACT : PURPOSE: To provide the subject refrigerator capable of keeping the inside chambers under a high humidity condition without growth of a fungus or a bacterium and, therefore, of keeping stored foods in a high-freshness state while always keeping the inside chambers clean.

CONSTITUTION: An inorganic antimicrobial agent such as silver or a silver compound is mixed in a plastic molding so as to make a microorganism such as a fungus or a bacterium lose its vitality by the antimicrobial effect of the antimicrobial agent existing on the molding surface and to prevent growth of the microorganism itself even if the microorganism adhering to a food is brought through a food distribution passage into the refrigerator. The plastic molding is preferably composed of polyacrylonitrile resin or a high-concentration acrylonitrile ABS resin, etc. The antimicrobial agent has a long life and there is no requirement for replenishment or exchange. In addition, this plastic molding is chemically stable enough to be free from cracking even when it is brought into contact with a heat insulator such as a polyurethane foam produced by using a substitute foam as the foaming agent. Therefore, a high reliable refrigerator can be obtained.

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